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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/527,178	04/27/2005	Harmin Muller	09600-00029-US	. 9984	
23416 7590 10/03/2006			EXAM	EXAMINER	
CONNOLLY BOVE LODGE & HUTZ, LLP P O BOX 2207			BOYKIN, TE	BOYKIN, TERRESSA M	
WILMINGTON, DE 19899		•	ART UNIT	PAPER NUMBER	
			1711		
		DATE MAILED: 10/03/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/527,178	MULLER ET AL.				
Office Action Summary	Examiner	Art Unit	-			
	Terressa M. Boykin	1711				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA: - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rep vill apply and will expire SIX (6) MONTH , cause the application to become ABAI	ATION. y be timely filed IS from the mailing date of this communication. IDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 3-7-5	į.					
· <u> </u>	,—					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by drawing(s) be held in abeyance ion is required if the drawing(s)	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Apprity documents have been received in Apprity documents have been received.	olication No eceived in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		nmary (PTO-413) Mail Date				

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>3 -7-05</u>.

Paper No(s)/Mail Date. ____ 5) D Notice of Informal Patent Application

6) Other: _____.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1- 24 are rejected under 35 U.S.C. 102(b) as being anticipated by USP 5087676 cols 1- 4; or EP 1199315 pages 1- 4; EP 1199316 pages 1-5.

USP 5087676 discloses polymers are prepared from olefinically unsaturated monomers in an aqueous medium using a free radical initiator system which is soluble in this medium and consists of an oxidizing agent, a reducing agent and an iron salt, by a process in which a corresponding redox initiator system which contains a vanadium salt is used in addition to this iron-containing redox initiator system, and the content of olefinically unsaturated residual monomers in aqueous polymer mixtures or solutions is reduced by this process.

EP 1199316 discloses an aqueous emulsion polymer is prepared by providing an ethylenically unsaturated monomer(s) and free radical redox initiator system under emulsion polymerization conditions. The redox initiator system comprises a water-soluble oxidizing agent, a water insoluble oxidizing agent, and a sulfonic acid reducing agent. Specifically the reference discloses a process for reducing the residual ethylenically unsaturated monomer content of an aqueous emulsion polymer, comprising contacting the emulsion polymer with the free radical redox initiator system,

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and effecting the polymerization of the residual ethylenically unsaturated monomer.

The process may be used for preparing an aqueous emulsion polymer used in paints, paper coatings, leather coatings, adhesives, nonwoven, and paper saturants.

The method leads to lowered residual monomer levels and lowered volatile organic compound (VOC) levels.

Likewise, the reference **EP 11999315** discloses an aqueous emulsion polymer is prepared by providing an ethylenically unsaturated monomer(s) and free radical redox initiator system under emulsion polymerization conditions. The redox initiator system comprises a water-soluble oxidizing agent, a water insoluble oxidizing agent, and a sulfonic acid reducing agent. Likewise, the reference discloses a process for reducing the residual ethylenically unsaturated monomer content of an aqueous emulsion polymer, comprising contacting the emulsion polymer with the free radical redox initiator system, and effecting the polymerization of the residual ethylenically unsaturated monomer. The process may be used also for preparing an aqueous emulsion polymer used in paints, paper coatings, leather coatings, adhesives, nonwoven, and paper saturants. The method leads to lowered residual monomer levels and lowered volatile organic compound (VOC) levels.

USP 3692726 discloses a process for the production of dispersions containing polymers or copolymers, practically free from monomers, which are obtained by emulsion polymerization or copolymerization in a aqueous medium in which monomers are used which contain unsaturated acids or their esters such as acrylic acid or their esters, emulsifiers, water-soluble redox-systems with pH values between 2 and 6s and

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peroxy compounds the improvement comprising adding peresters and/ or perketals to the reaction mixture, the decomposition tempers of the peresters or perketals being preferably between 30 –150 C., so that the mixture is polymerized at the polymerization temperature until the residual monomer content becomes negligible.

Each of the references discloses a process for removing or reducing residual monomers or particles in an aqueous polymer dispersion as claimed by applicants. Any properties or characteristics inherent in the prior art, e.g. viscosity, PH, temperature during the after treatment, pressure etc., although unobserved or detected by the reference, would still anticipate the claimed invention. Note In re Swinehart, 169 USPQ inherently possessed by things in the prior art, does not cause claim drawn to those things ". Since the disclosed are expressed differently, they nevertheless appear to overlap those claimed and thus are not distinguishable over the prior art. In view of the above, there appears to be no significant difference between the reference(s)and that which is claimed by applicant(s). Any differences not specifically mentioned appear to be conventional. Consequently, the claimed invention cannot be deemed as novel and accordingly is unpatentable.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terressa M. Boykin whose telephone number is 571 272-1069. The examiner can normally be reached on Monday-Thursday 10-5:30 Friday (work at home).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Terressa M. Boykir Primary Examiner Art Unit 1711
